NATIONAL RECONNAISSANCE OFFICE

GEOINT

Bruce Carlson

17 October 2011





NRO LAUNCH SUCCESS



2010 - 2011



L-41

20 SEP 2010

Atlas V

Vandenberg



L-32

21 NOV 2010

Delta IV Heavy

Cape



L-49

20 JAN 2011

Delta IV Heavy

Vandenberg



L-66

6 FEB 2011

Minotaur I

Vandenberg



L-27

11 MAR 2011

Delta IV

Cape



L-34

14 APR 2011

Atlas V

Vandenberg

MSC 11-13484



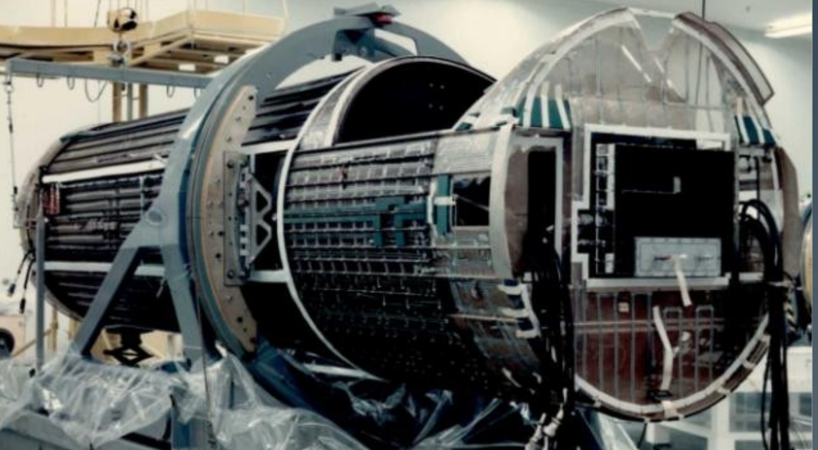
50th Anniversary Gala – Udvar Hazy


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50 YEARS OF VIGILANCE FROM ABOVE

GAMBIT



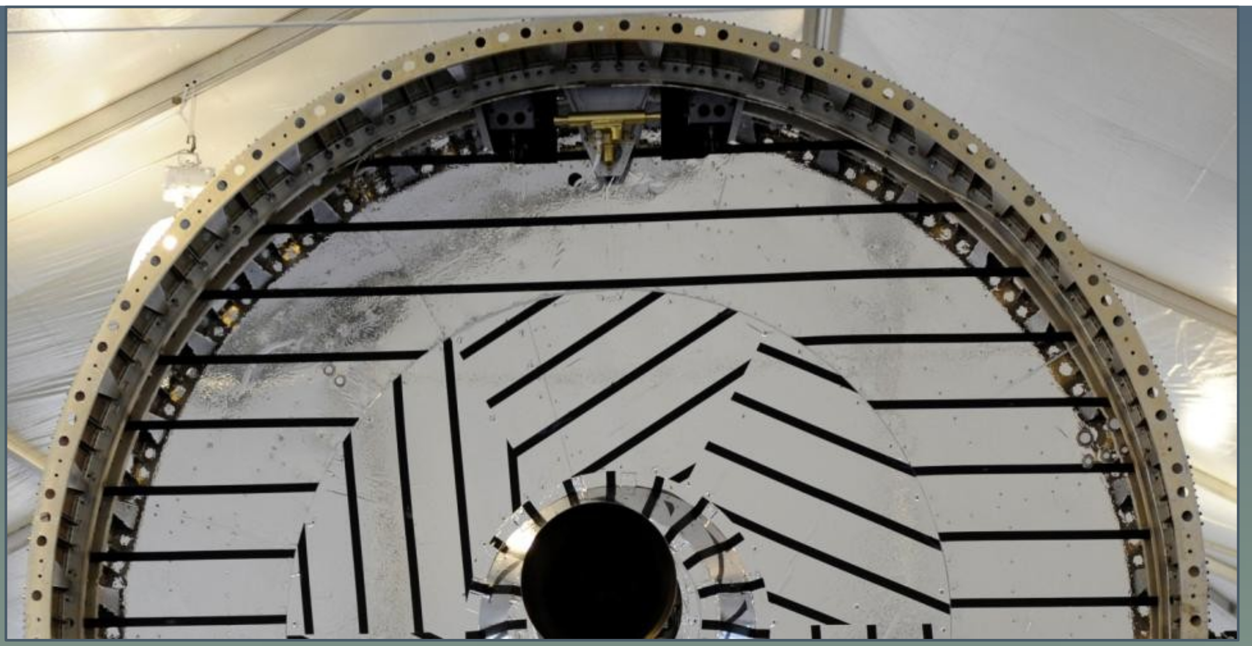




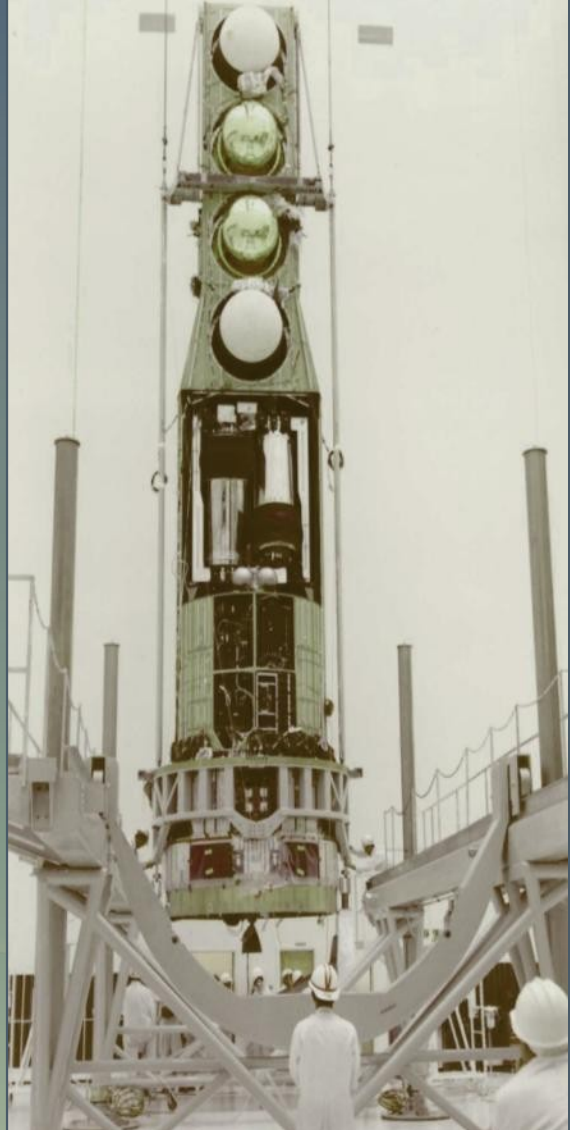



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HEXAGON









2012 Launch Campaign – Stay Focused

2012

MAR	APR	MAY	JUN		JUL
NRO L-25 VAFB Mar 2012			NROL-38 CCAFS Jun 2012	NROL-15 CCAFS Jun 2012	NROL-36 VAFB Jul 2012

Without launch success, there can be no mission success!



Assessing Acquisition Strategies

- NRO acquisition approach used for decades
  - Steady recurring investment to stabilize production rates
  - Quantity buys for improved efficiency
  - Steady non-recurring investment for manageable risk
  - De-coupled non-recurring from recurring investment

- Acquisition Study looking at three strategies:
  - Buy on Need
  - Constellation Buy
  - NRO's Proven Acquisition Approach



(U) Comparing Acquisition Strategies

"A 30 Year Look"

1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027

BUY ON NEED

1 2
3
4
5 6
7 8
9 *
* *

CONSTELLATION BUY

1 2 3 4
5 5 6 6 7 7 8 8
9 * 9 * * * * *

NRO'S APPROACH

Maximize industrial base

1 2 3 4 5 5 6 6 7 7 8 8 9 * 9 * * * * * *

Maximize to meet functional availability

1 2 3 4 5 6 7 8 9 * * *



Assessing Acquisition Strategies

Relative measures of merit assessed for each strategy	Relative Ranking/Score		
	Buy on Need	**Constellation Buy**	**NRO Approach**
➢ Predicted cost/schedule performance			
➢ Delivered capability	TBD	TBD	TBD
➢ Ability to address evolving requirements			
➢ Industrial base impact			
➢ Budget stability			
➢ Functional availability	TBD	TBD	TBD
➢ Magnitude of uncertainty/risk			

Ranking/Score Legend

1 (highest)	
2 (middle)	
3 (lowest)	



Joint Collaboration Cells

Lower quality information w/ high tactical value satisfies actionable time frame

Time *vs.*
Tactical Value & Quality

Value & Quality

Combat Zone

Comfort Zone

Time

Deep Water Horizon


Source: U.S.Coast Guard


Source: GeoEye

Haiti, Presidential Palace



Fusion Analysis & Development Effort (FADE)

Multi-Intelligence Spatial Temporal Toolsuite (MIST)

Communication Externals of Ground moving target Indications to Human Intelligence

DigitalGlobe

Temporally and geospatially render millions of Data Elements



Advanced Multi-Intelligence Integration Tool



NRO Mission Architecture

COMMON SERVICES – Standards Based

- Software Framework & Content Structure
- Enabling Service for Application & Content
- Computer & Storage Platforms
- Networks
- Physical Connectivity Infrastructure
- Facilities Infrastructure

External

External Products

ATTRIBUTES

- Reduced resource demands
- Improved cost effectiveness
- Integrated & streamlined operations
- Resilient & adaptable
- Focused innovation
- Enterprise standards
- Common Services

CAPABILITIES

- Full spectrum prosecution
- Worldwide persistence
- Rapid discovery & dissemination
- Multi-INT fusion
- 24/7 denied area access

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